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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 5204-053 107507588 |
| INTERNATIONAL APPLICATION NO. PCT/KR03/00492 | INTERNATIONAL FILING DATE 13 MARCH 2003 | PRIORITY DATE CLAIMED 13 March 2002 |
| TITLE OF INVENTION ARRAY-TYPE OPTICAL DEVICE HAVING ENHANCED PUMP EFFICIENCY | | |
| APPLICANT(S) FOR DO/EO/US Jung-Hoon SHIN and Nam-Kyoo PARK | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <ol style="list-style-type: none"> <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. <input type="checkbox"/> The US has been elected (Article 31). <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). <input type="checkbox"/> has been communicated by the International Bureau. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> <input checked="" type="checkbox"/> is attached hereto. Filed in English <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). <input type="checkbox"/> have been communicated by the International Bureau. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. <input type="checkbox"/> have not been made and will not be made. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | |
| Items 11 to 20 below concern document(s) or information included: | | |
| <ol style="list-style-type: none"> <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. <input type="checkbox"/> A preliminary amendment. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. <input type="checkbox"/> A substitute specification. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). <input checked="" type="checkbox"/> Other items or information: Transmittal Letter, PCT Request and WIPO Publication | | |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/507388 | INTERNATIONAL APPLICATION NO. PCT/KR03/00492 | ATTORNEY'S DOCKET NUMBER 5204-053 |
| 21. <input checked="" type="checkbox"/> The following fees are submitted: | | CALCULATIONS PTO USE ONLY |
| BASIC NATIONAL FEE (CFR 1.492(a)(1)-(5)): | | |
| Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO..... \$1080.00 | | |
| International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$920.00 | | |
| International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$770.00 | | |
| International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$730.00 | | |
| International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00 | | |
| ENTER APPROPRIATE BASIC FEE AMOUNT = | | |
| \$ 1080.00 | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | |
| \$ | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA |
| Total claims | 9 - 20 = | 0 |
| Independent claims | 3 - 3 = | 0 |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | + \$290.00 |
| TOTAL OF ABOVE CALCULATIONS = \$ 1080.00 | | |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½. | | |
| SUBTOTAL = \$ 540.00 | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | |
| + \$ 0 | | |
| TOTAL NATIONAL FEE = \$ | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | |
| + \$ 0 | | |
| TOTAL FEES ENCLOSED = \$ 540.00 | | |
| | | Amount to be refunded: |
| | | Amount to be charged: |
| a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. | | |
| b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. | | |
| c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>13-1703</u> . A duplicate copy of this sheet is enclosed. | | |
| d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. | | |
| SEND ALL CORRESPONDENCE TO: | | |
| Hosoon Lee Marger Johnson & McCollom P.C. 1030 SW Morrison St. Portland, OR. 97205 USA (503) 222-3613 | | |
|  SIGNATURE <hr/> Hosoon Lee NAME <hr/> Limited Recognition Under 37 CFR & 10.9 REGISTRATION NUMBER | | |

EXPRESS MAIL

MAILING LABEL NO. EV 322411862 US
DATE OF DEPOSIT: SEPTEMBER 10, 2004

DT03 Rec'd PCT/PTO 10 SEP 2004

I HEREBY CERTIFY THAT THIS PAPER AND ENCLOSURES AND/OR FEE ARE BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO: MAIL STOP PCT, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450

NATASHA FRENCH
(SENDER'S PRINTED NAME)

Natash A. F. 10/507388
(SIGNATURE)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
U.S. RECEIVING OFFICE (RO/US)

In Re: International Application No. PCT/KR03/00492
Filed: September 10, 2004
Applicant: Jung-Hoon SHIN and Nam-Kyoo PARK
Title of Invention: ARRAY-TYPE OPTICAL DEVICE HAVING ENHANCED PUMP
EFFICIENCY
Agent's File Ref.: Docket No. 5204-053

Box PCT
Commissioner for Patents and Trademarks
P.O. Box 1450
Alexandria, VA 22313-1450

Transmittal Letter

Enclosed for filing regarding the above-referenced International Application are the following:

- Transmittal letter to U.S. Designated Office (DO/EO/US)
concerning filing under 35 U.S.C. 371;
- Copy of International Search Report
- Specification (pages 1-6); claims (pages 7-8); abstract (page 9)
- TWO sheet(s) of FORMAL drawings FIGS. (1-4)
- Combined Declaration and Power of Attorney (SIGNED)
- Applicant claims small entity status (see 37 CFR 1.27)
- Copy of Published Application WO 03/076989 A1
- Information Disclosure Statement with 3 cited references
- Copy of Notice of Limited Recognition Under 37 CFR § 10.9(b)
- Copy of PCT Request
- Return Postcard
- PTO Form 2038 authorizing credit card payment for the above-listed fees is enclosed.
- Any deficiency or overpayment should be charged or credited to deposit account number 13-1703. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

MARGER JOHNSON & McCOLLOM, P.C.

Hosoon Lee
Hosoon Lee
Limited Recognition Under 37 CFR § 10.9(b)

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